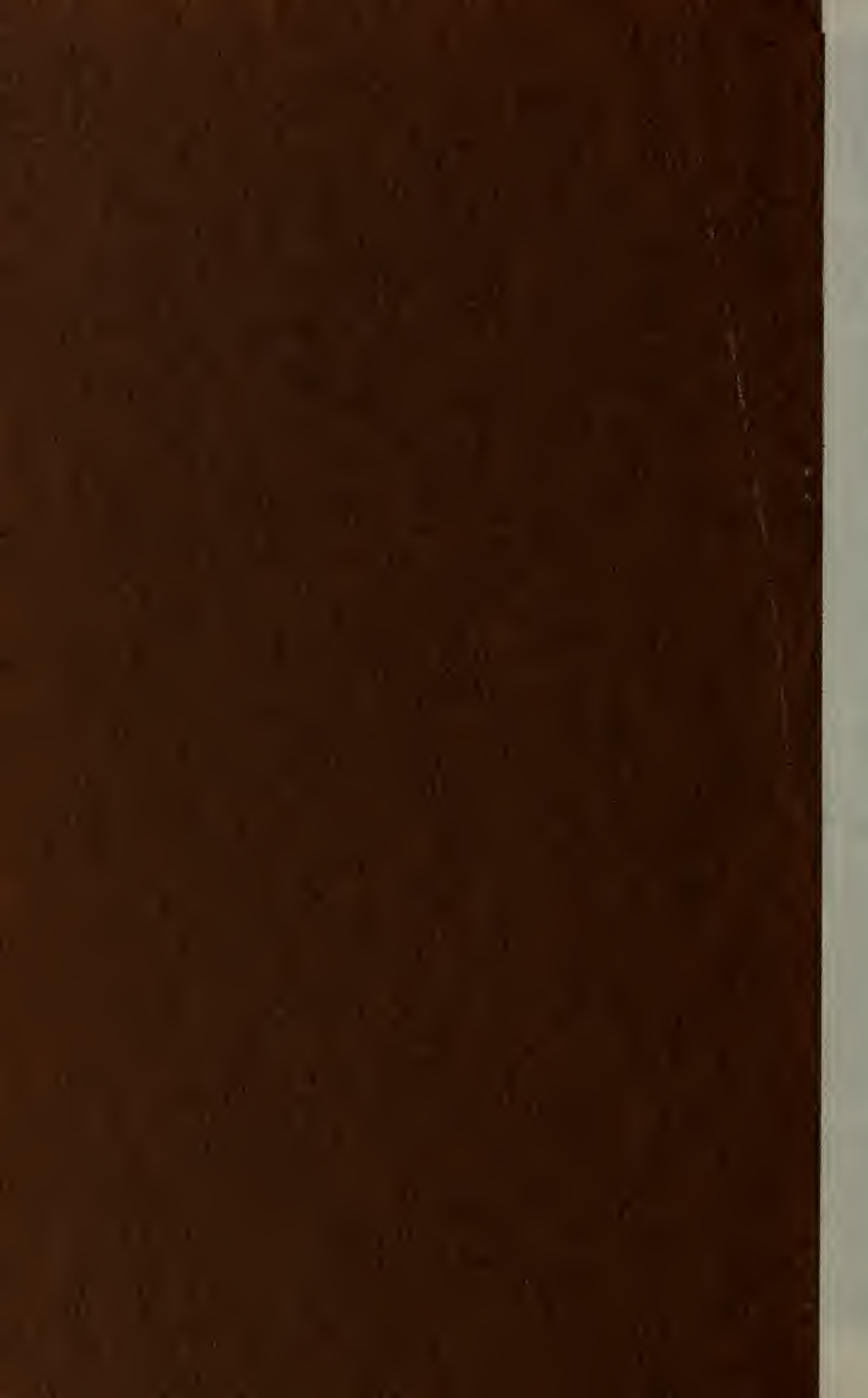


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A
NUMERICAL CLASSIFICATION
OF
PHOTOGRAPHY

ISSUED BY THE
RESEARCH LABORATORY
EASTMAN KODAK COMPANY
" ROCHESTER, N. Y. :: SEPTEMBER, 1916

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A Numerical Classification of Photography

INTRODUCTION

This system of classification is based on the fact that any photographic operation involves four separate considerations:

(1) The operation is done with a purpose of achieving a certain result and can be considered from the point of view of that result. This will be referred to as the "purpose" of the operation. For example, an operation can be undertaken with a view to obtaining a portrait, or with a view to obtaining an enlargement of some kind, or with a view to obtaining a photographic record or a photomicrograph; all these will be involved in the view of the operation from the point of view of purpose.

(2) The operation will involve some form of photographic material; it will, indeed, always involve two classes of photographic material; namely, a sensitive material and some apparatus, but since in classification these are almost mutually exclusive, we may consider that we take a portrait, for instance, upon a plate or upon a film, or with a studio camera, or by means of flash-light apparatus. Thus, we have to consider as well as the purpose the "material" that is employed.

(3) There is involved the operation itself. Thus, in order to obtain a portrait negative (the purpose) by means of a flash-light apparatus (the material) we must conduct a series of operations; we must expose, we must develop, and we must print the negative, and each of these operations will be subdivided, so that we can consider the purpose, the apparatus and the nature of the operation itself.

(4) Finally, we may perform operations in some cases by any one of several photographic processes. For instance, we may make a print by means of a silver process or by means of a bichromate process, and these again have subdivisions.

We must therefore consider a photographic operation as involving (1) the purpose, (2) the material, (3) the operation itself, and (4) the photographic process.

It may not be necessary to state more than one of these four possibilities in order to classify a given article or patent. A patent for a camera, for instance, merely refers to a material, and the operation to be performed and the purpose of the operation are either obvious or of no importance; so, most photographic operations are performed by means of the gelatino-silver process, and the process may usually be omitted as obvious. In color photography, however, the process is usually the important thing and the operation or purpose is relatively of no importance.

In order to classify completely a photographic operation, therefore, we must be able to use four sets of symbols and we must be able to distinguish whether these symbols refer to purpose, material, operation or process.

The Purpose

In this classification the *purposes* are classified by a series of numbers starting with zero; the prefix of zero to a number, therefore, indicates that the symbol stands for the *purpose* of an operation.

The Material

The *materials* involved in the operation are referred to by numbers only, and if a compound number is not preceded by zero it refers to a material. Thus, 031 is portraiture; 1213 is flat film; therefore, a reference to the use of flat film for portraiture may be indexed as 031-1213, the order of the symbols indicating the way in which it should be indexed, so that this reference would be indexed under "Portraiture—Use of Flat Film for," whereas if indexed 1213-031 it would be indexed under "Flat Film—Use in Portraiture."

The Operation

The Operation is indicated by a letter followed by a number. The operations are as follows:

- A Manufacture of any material or apparatus.
 - B " " support for sensitized material.
 - C " " emulsion for " "
 - D Operation of Coating emulsion on support.
 - E " " Packing and finishing a sensitized material for the market.
 - F " " Exposing a material in a camera.
 - G " " Developing a material.
 - H " " Reducing, Intensifying or otherwise chemically finishing a negative.
 - J " " Printing from a negative.
 - L " " Retouching, Working up, Preparing, Spotting, Coloring, etc.
 - N " " Mounting and Framing a photograph.
- Initial M—Machine used for manufacture; e. g., MD11 means a plate coating machine. (M machine, D coating, 11 photographic plates.)

Thus, if we refer to toning bromide prints, print toning is J8 and bromide paper, the material, is 137, so that we can classify this as J8-137, where it is classified under Toning, or as 137-J8, where it is classified under Bromide Prints.

The Process

The *Process* is indicated by a number which is placed in the denominator of a fraction; thus, the making of lantern slides, the obtaining of a lantern slide being the purpose, is 045 and the making of lantern slides by the Albumen process will be 045/65, silver processes being 6 and the Al-

bumen process 65. If no process is indicated, it is taken for granted that the process is the gelatino-silver process. Thus, we see that an operation can be completely expressed by the four sets of symbols, though in practice it is very rarely necessary to index with all four symbols, it usually being necessary to use only one or two; these one or two, however, may belong to any of the four groups.

Additions to the Classification

Many gaps have been left in the numbers, and as new references requiring numbers come to our attention they will be placed in the best position possible and the numbers assigned will be published in the MONTHLY ABSTRACT BULLETIN.

Special Classes

There are a few classes coming under the heading of Purposes for which it is desirable to make special provision.

Color photography is classified as 042, but in view of the constant reference to it this is shortened to the abbreviation K, so that K simply stands for 042 and not for an operation. Thus, KG3 would be the use of time development in color photography, G3 being time development. The specific color processes are represented by K/1, K/2, K/3, K/4 and K/5.

X-ray photography is class 099, but this so frequently occurs that it is shortened to X, X standing for the symbol 099. X-Ray photography involves a class of apparatus which is not used in any other branch of photography and this is classified under Materials as Class 4 of Materials.

Motion photography or cinematography differs in its classification from the rest of photography in that the operations required in it, being special, are classified under its own heading of 06 and not with a separate operation symbol. Thus, negative developing in general is G, but 06 being motion photography, developing motion picture negatives is classified as 0632 without using the G symbol, although appending this would not confuse the classification. Motion picture work also involves a special class of apparatus and this is classified among materials as Class 3, *all materials starting with 3 representing apparatus required for motion picture photography*, as *materials starting with 2 will be materials for ordinary photography* and *materials starting with 4, materials for X-Ray photography*.

Photo-engraving operations are also represented by the number under which photo-engraving is classified and do not use a separate operation symbol. This is done in consequence of the simplicity of the classification of photo-engraving and also in that it requires different operations from those employed in ordinary photography. Photo-engraving is classified under 07, photo-engraving processes being distinguished as 071, 072 and 073, which are in their turn subdivided and the operation shown by a fifth cipher, the operations numbering from 1 to 9.

Use of the Classification

While the numerical classification can be used in connection with any system of references, it is specially designed for use in connection with the Monthly Abstract Bulletin. In the Bulletin each abstract or patent reference which has reference to photography has its classification number appended. If these are cut out and pasted on cards each month (for which two copies of the Bulletin will be required), these cards can be filed in the numerical order of the classification and will form a permanent card index to photographic literature, the labor involved being only that of cutting out and filing the abstracts. If an index to the whole of photography is not required only the required abstracts need be filed; e. g., a file of all abstracts beginning with K will form an index to Color Photography, one of all abstracts beginning with 21 an index to Cameras. As new classes are found necessary they will be inserted and the numbers assigned will be published in the Abstract Bulletin. The following guide cards will be found useful at the start, and intermediate ones may be added from the Classification as may be found necessary:—

A	05	131	164	2624	37
B	055	132	165	2626	38
D	056	136	166	2629	K
E	057	137	167	263	K01
F	058	14	1674	2631	K02
G	06	141	168	264	K04
H	066	1411	169	2645	K05
J	067	1412	2	265	K06
L	068	1413	21	2653	K07
M	07	142	2100	2658	K/1
O	07001	1421	2103	266	K/2
01	07005	15	213	2668	K/21
011	071	151	215	267	K/3
012	0713	1512	217	27	K/32
013	072	1513	218	28	K/4
014	073	1515	22	29	K/43
015	0733	1516	223	3	K/8
016	0734	1517	224	31	K1
017	08	152	23	3100	K11
018	082	153	24	32	K2
019	09	1531	241	3200	K22
02	/61	154	242	3202	K31
023	/9	155	243	3205	X
024	1	156	25	3208	X01
027	11	157	252	321	X0116
03	12	158	254	322	X12
04	121	159	255	324	X4
044	1211	16	26	33	X42
046	1212	161	262	34	X43
0461	1215	162	2621	35	X44
047	13	163	2623	36	

Operation Symbols

- A indicates the manufacture of any article.
 E. g., A3 means the manufacture of cinematographic apparatus.
- B indicates the manufacture of the support for sensitized material.
 E. g., B122 means the manufacture of acetate film support.
- C indicates the manufacture of the emulsion of a sensitized material.
 E. g., C135 means the manufacture of a printing-out emulsion.

D indicates the operation of coating the emulsion on the support.
 E indicates the packing and finishing of a sensitized material for the market.
 E. g., E1211 means the spooling of roll film.

F		J8	Print Toning.
F1	Composing and Focusing.	J81	Toning by Metals. (Gold, Platinum, etc.)
F2	Camera Loading with Material.	J82	Toning by Metallic Salts; e.g. Ferrocyanides.
F3	Use of Special Lenses.	J83	Toning by Various Forms of Silver Deposits.
F4	Use of Special Shutters.	J84	Toning by Sulphur, Selenium, Tellurium Compounds.
F5	Determination of Exposure.	J87	Toning by Colored Oxidation Products.
F6	Making the Exposure.	J88	Toning by Dye Deposition.
G	Indicates Developing, etc.	J9	Print Drying.
G1	Compounding Solutions.	L	Indicates Working Up, etc.
G2	Tentative Development.	L1	Retouching.
G3	Time Development.	L2	Blocking Out and Working Up Negatives.
G4	Stand Development.	L3	Spotting.
G5	Other Special Methods of Development.	L4	Working Up Prints.
G6	Fixing.	L5	Coloring.
G7	Washing.	L6	Surfacing, Glazing, Varnishing, etc., Prints.
G8	Reversing Negative to Positive.	L7	Restoring Faded Prints.
G9	Making Duplicate Negatives.	N	
H	Indicates After Treatment of Negative.	N1	Mounting.
H1	Reducing.	N2	
H2	Intensifying.	N3	
H3	Drying.	N4	
H4	Stripping.	N5	Framing.
H5	Varnishing.	P	Recovery of Wastes and Economies.
H6	Titling.	P1	Recovery of Silver Wastes.
J	Indicates Printing.	P2	Recovery of Gold and Platinum Wastes.
J1	Daylight Printing.	P5	Recovery of Chemicals.
J2	Printing Out by Artificial Light		
J3	Developing Out Printing.		
J4	Developing and Fixing Prints.		
J5			
J6	Print Washing.		
J7			

Purpose Symbols

01	The Theory of Photography.	019	Photographic Optics.
011	Photo-Electricity.		
012	Photo-Sensitive Materials.	02	Amateur Photography.
013	Theory of Printing Out Images.	021	Landscape Work.
014	Latent Image and Theory of Exposure, Resolving Power.	022	Portrait and Figure Work.
015	H. & D. Theory and Sensitiveness of Materials.	023	Indoor Work.
016	Practical Sensitometry.	024	Hand Camera Work.
017	Theory of Development	025	Photographic Art.
018	Color Sensitiveness.	03	Professional Photography.
		031	Portraiture.

- 0311 Studio Design and Business;
e. g., "Design of Portrait
Studios."
"Card Filing Systems for
Portrait Photographers."
- 0312 Reception Room Arrange-
ments and Work.
- 0313 Home Portraiture.
- 0314 Posing and Lighting.
- 032 Commercial Photography.
- 033 Press Photography.
- 0335 Photographic Copyright.
- 034 "Moving" Portraits.
- 04 Photographic Operations Con-
sidered in Light of the Re-
sult Produced.
- 041 Defects.
- 042 Color Photography. (K)
(See Page 14)
- 043 Stereoscopic Photography.
- 044 Photo-Sculpture.
- 045 Lantern Slide Making.
- 046 Enlarging.
- 047 Photographic Enamels.
- 048 Photographic Decorations.
- 049 Transparencies.
- 05 Photographic Operations Invol-
ving Special Apparatus or Con-
ditions.
- 051 Wide Angle and Panoramic
Work.
- 052 Telephoto Work.
- 053 Architectural Work.
- 054 High Speed Photography.
- 055
- 056 Photography with Color Sensi-
tive Materials.
- 0561 Orthochromatic Photo-
graphy.
- 0562 Color Contrast Photo-
graphy.
- 057 Copying.
- 058 Artificial Light Photography.
- 0581 Flash-Light Work.
- 0582 "Night Photography."
- 0583 Portraiture by Artificial
Light.
- 06 Motion Photography.
- 061 Studio Arrangements.
- 062 Stage Arrangements and Act-
ing.
- 063 Taking.
- 0631 Camera Work.
- 0632 Developing.
- 0633 Fixing.
- 0634 After Processes.
- 0635 Washing.
- 0636 Drying.
- 064 Positive Making.
- 0641 Perforating.
- 0642 Printing.
- 0643 Developing.
- 0644 Fixing.
- 0645 Toning and Tinting.
- 0646 Washing.
- 0647 Drying.
- 0648 Stenciling and Coloring.
- 0649 Titling and Assembling,
Varnishing, Cleaning, etc.
- 065 Film Sale and Hire Arrange-
ments.
- 066 Theatre Arrangements.
- 067 Projecting.
- 068 Stereo Cinematography.
- 069 Combination Cine and Phono-
graphic Methods.
- 07 Photo-Engraving.
- 07001 Preparation of the Original.
- 07002 Camera Operation.
- 07003 Dark Room Operations.
- 07004 Preparation of the Printing
Surface.
- 07005 Transference of the Image to
the Printing Surface.
- 07006 Etching.
- 07007 Re-Etching and Finishing.
- 07008 Routing and Mounting.
- 07009 Proving and Printing.
- 071 Intaglio Processes.
- 0711 Bitumen and Early Processes.
- 0712 Hand Photogravure.
- 0713 Machine Photogravure.
- 0714 Steel Engraving.
- 0715 Intaglio Half-Tone.
- 0716 Woodburytype.
- 072 Surface Processes.
- 0721 Lithography.
- 0722 Photolithography.
- 0723 Offset.
- 0724 Collotype.
- 0725 Decalcomanie.
- 0726 Graph Processes.

073	Relief Processes.	092	Position Recording Methods.
0731	Wood Engraving.	093	Photographic Photometry.
0732	Line Etching.	094	Photomicrography.
0733	Half-Tone. (Screen)	0941	Very Low Power Work.
0734	Half-Tone. (Grain)	0942	Sections.
0735	Electrotyping.	0943	Dark Field Illumination.
074	Mixed Processes.	0944	Bacteria.
08	Applied Photography.	0945	Metallography.
081	Documentary Photography.	0947	Microphotography.
082	Legal and Criminal Photography.	095	Spectrography.
083	Military Photography.	096	Astronomical Photography.
084	Photographic Surveying.	0961	Astrographic Determinations.
085	Record Photography.	0962	Stellar Spectroscopy.
086	Photographic Recording, (Meter Reading, etc.)	0963	Heliography.
087	Phototelegraphy.	0964	Spectroheliography.
088	"Spirit Photography."	0965	Radial Velocity Determinations.
089	Miscellaneous Applied Photography.	097	Medical and Surgical Photography.
09	Scientific Photography.	098	Nature Photography.
091	Curve Recording Methods.	099	Roentgen Photography. (X)

(See Page 15)

Process Symbols

/6	Silver Processes.	/74	Kallotype.
/61	Daguerreotype.	/75	Platinum Silver.
/62	Sensitized Paper Processes (Calotype, etc.)	/8	Bichromate Processes.
/63	Wet Collodion.	/81	Chromate Alone or with Other Metals.
/64	Collodion Emulsion.	/82	Carbon.
/65	Albumen Processes.	/83	Ozotype.
/66	Gelatino-Bromide Emulsion.	/84	Ozobrome.
/67	Unwashed Emulsions for Development.	/85	Pinatype.
/68	Printing Out Silver Processes.	/86	Fish Glue.
/7	Iron Processes.	/87	Powder.
/71	Blue Print.	/88	Gum Bichromate.
/72	Iron Gallate.	/89	Oil, Bromoil and Oil Transfer.
/73	Platinum.	/9	Processes Involving Other Light Sensitive Substances.

Material Symbols

1	Materials.	114	Panchromatic.
11	Sensitized Dry Plates.	115	Non-Halation.
111	Ordinary.	116	X-ray.
112	Lantern.	117	Ferrottype.
113	Orthochromatic.	118	Process.

- 12 Sensitized Film.
 - 121 Nitrate Film.
 - 1211 Roll Film.
 - 1212 Cine Film.
 - 1213 Flat Film.
 - 1214 X-Ray Film.
 - 1215 Film Packs.
 - 122 Acetate Film.
 - 123 Viscose Film.
 - 124 Other Cellulose Product Film.
 - 125 Cellulose Formate.
 - 126 Gelatine Base Film.
 - 127 Stripping Film on Paper.
- 13 Sensitized Printing Papers.
 - 131 Iron Processes.
 - 1311 Platinum Paper.
 - 1312 Iron Silver.
 - 1313 Ferroproussiate.
 - 132 Bichromate Processes.
 - 1321 Carbon.
 - 1322 Pinatype.
 - 1323 Ozobrome.
 - 1324 Fish Glue.
 - 133 Albumen Paper.
 - 134 Collodion Paper.
 - 135 Printing Out Papers.
 - 1355 Self-Toning Printing Out Papers.
 - 136 Gaslight Developing Out Papers.
 - 137 Bromide.
 - 1373 Photostat.
 - 1375 Transfer Bromide.
 - 138 Bleach Out Paper.
- 14 Raw Materials.
 - 141 Support Materials.
 - 1411 Cotton and Wood Pulp.
 - 1412 Paper (Photographic).
 - 1413 Glass.
 - 1414 Baryta.
 - 142 Emulsion Materials.
 - 1421 Gelatine.
 - 1422 Casein.
 - 1423 Collodion.
 - 1424 Albumen.
 - 143 Packing Materials.
 - 1431 Paper (Packing).
 - 1432 Millboard.
 - 1433 Tinfoil.
- 15 Chemicals.
 - 151 Used in Making Film Base.
 - 1511 Acids.
 - 1512 Cellulose Nitrate.
 - 1513 Cellulose Acetate and Other Fatty Esters.
 - 1514 Other Cellulose Derivatives.
 - 1515 Viscose.
 - 1516 Solvents.
 - 1517 Fillers.
 - 1518 Stabilizers.
 - 152 Used in Making Emulsions.
 - 1521 Silver Salts.
 - 1522 Bromides.
 - 1523 Chlorides.
 - 1524 Iodides.
 - 1525 Added Chemicals.
 - 1526 Hardeners.
 - 1527 Preservatives.
 - 1528 Coating Additions.
 - 153 Developing Chemicals.
 - 1531 Reducing Agents.
 - 15311 Iron Salts.
 - 15312 Other Inorganic Developing Agents.
 - 15313 Phenols.
 - 15314 Amino Phenols.
 - 15315 Di- and Triamines.
 - 15316 Reducing Agents Giving Colored Oxidation Products (e. g. Indoxyl).
 - 1532 Preservatives.
 - 1533 Accelerators.
 - 1534 Restrainers.
 - 154 Fixing & Hardening Chemicals.
 - 1541 Fixing Chemicals.
 - 1542 Preservatives for Fixing Bath.
 - 1543 Hardeners.
 - 1544 Stain Removers.
 - 155 Intensifying and Reducing Chemicals.
 - 1551 Intensifiers.
 - 1555 Reducers.
 - 156 Toning Chemicals.
 - 1561 Bleaching Chemicals.
 - 1562 Metallic Compounds of Base Metals.
 - 1563 Redeveloping Chemicals.
 - 1565 Chemicals for POP Toning Baths.
 - 157
 - 1571 Bichromates.
 - 1572 Gums.
 - 1573 Albumen.
 - 1574 Fish Glue.

- 1575 Metagelatine.
- 1576 Iron Salts.
- 1579 Platinum and Platinum Salts.
- 158 Dyes.
 - 1581 Sensitizers.
 - 1582 Filter Dyes.
 - 1583 Pinatype Dyes.
 - 1584 Spirit Soluble Dyes.
- 159 Sundry Chemicals.
 - 1592 Flash-Light Powders.
- 16 Photographic Solutions.
 - 161 Film Base Solutions (Dopes).
 - 1612 Nitrate Dope.
 - 1613 Acetate Dope.
 - 162 Emulsions.
 - 163 Developing Solutions.
 - 164 Fixing Solutions.
 - 165 Intensifiers and Reducers
 - 1651 Mercury Intensifiers.
 - 1652 Silver “
 - 1653 Chromium “
 - 1654 Other “
 - 1655 Cutting Reducers (Farmer's, etc.)
 - 1656 True Scale Reducers (Perman-
- ganate, etc.)
- 1657 Flattening Reducers (Persulphate, etc.)
- 166 Toning Solutions.
 - 1661 Bleaching Baths.
 - 1662 Metallic Toning Baths (Base Metals).
 - 1663 Sulphiding Baths.
 - 1665 POP Toning Baths.
- 167 Bichromate Solutions.
 - 1671 Bichromate Sensitizers.
 - 1672 Ozotype Solutions.
 - 1673 Ozobrome “
 - 1674 Bromoil “
- 168 Dye Solutions.
 - 1681 Dye Sensitizing Baths.
- 169 Varnishes and Pastes.
 - 1691 Negative Varnishes.
 - 1692 Retouching Varnishes.
 - 1693 Cellulose Varnishes.
 - 1695 Starch Pastes.
 - 1696 Dextrin Pastes.
 - 1697 Mucilages.
 - 1698 Opaques.
 - 1699 Glazing and Cleaning Solutions.

Apparatus

- 21 Taking Cameras.
 - 211 Studio Cameras.
 - 2115 Cirkut Cameras.
 - 2116 Multiple Cameras.
 - 212 Field Cameras.
 - 213 Plate Hand Cameras.
 - 2131 Reflex Cameras.
 - 2132 Box Cameras.
 - 214 Film Pack Cameras.
 - 215 Roll Film Cameras.
 - 2151 Roll Film Cameras fitted with Focusing Attachment or Plate Holder.
 - 2152 Film Cameras with Automatic Changing of Film or Lock for Shutter until Film is Changed.
 - 2153 Film Cameras with Attachment for Writing on Film.
 - 2154 Film Cameras in Pistol Form or Other Disguises.
 - 2155 Panoramic Film Cameras.
 - 2156 Cameras using Cinematograph Film for Single Pictures.
- 216 Photo-Engraving Cameras.
 - 2166 Photo-Engraving Copy Boards.
- 217 Copying and Enlarging.
 - 2171 Copying Cameras.
 - 2172 “Photostat Cameras.”
 - 2174 Daylight Enlarging Cameras
 - 2176 Easels.
 - 2177 Copy Holders.
- 218 Stereoscopic Cameras.
- 219 Miscellaneous Cameras.
 - 2193 Cameras in which Developing and Fixing can be Performed, other than “Photostats,” “Automatic” Cameras.
- 210 Camera Parts.
 - 2101 Base Boards.
 - 2102 Focusing Devices. (Racks)
 - 2103 Fronts and Lens Carrying Boards.
 - 2104 Bellows.
 - 2105 Backs.
 - 2106 Focusing Hoods, Screens, etc.
 - 2107 Vignettors.

2108	Multiplying Devices. (For Taking Several Pictures on One Plate.)	26	Camera Accessories.
22	Viewing and Projecting Apparatus.	261	Stands.
221	Optical Lanterns.	2611	Studio Stands.
222	Enlargers.	2612	Folding Tripods.
223	Accessories to Enlargers and Lanterns.	2613	Metal Tripods.
2231	Light Sources.	2614	Miscellaneous Supports.
2232	Lamp Houses.	2616	Camera Fastenings.
2233	Condensers.	2618	Photo-Engraving Stands.
2234	Slide Holders.	262	Shutters.
2235	Slide Changing Devices.	2621	Studio Shutters.
2236	Negative Holders for Enlargers.	2622	Roller Blind Shutters.
2237	Material Holders for Enlargers.	2623	Diaphragm Shutters.
224	Projection Screens.	2624	Focal Plane Shutters.
225	Viewing Apparatus.	2626	Shutter Operators.
227	Stereoscopes.	2629	Iris Diaphragms.
228	Stereo Projectors.	265	Lenses.
23	Artificial Light Apparatus and Arrangements.	2631	Single Lenses.
231	Flash-Light.	2632	Single Cemented Elements. (Meniscus Achromats.)
232	Electric.	2633	Symmetrical Doublets.
2321	Arc Lamps.	2634	Anastigmat Lenses.
2322	Filament Lamps.	2635	Process Lenses.
233	Gas Lamps.	2636	Wide Angle Lenses.
24	Printing Apparatus.	2637	Telephoto Lenses.
241	Printing Machines for DOP	2638	Portrait Lenses.
242	Printing Frames.	2639	Projection Lenses.
243	Masks and Border Negatives.	264	View Finders.
244	Paper Storage Boxes and Cabinets.	2645	Focusing Finders.
246	Finishing Materials and Colors	265	Material Holders.
247	Blue Print Printing Machines.	2651	Plate Holders.
248	Printing Frames for Photo-Engraving.	2652	Magazines.
25	Developing Apparatus.	2653	Film Spools.
251	Developing Accessories.	2654	Roll Holders.
252	Plate Tanks.	2655	Film Packs.
253	Continuous Machines.	2656	Film Pack Adapters.
254	Film Tanks.	2657	Cut Film Holders.
2541	Roll Film Tanks.	2658	Daylight Loading Holder for Single Plates or Films.
2542	Film Pack Tanks.	2659	Material Holders in Which Development can be Performed. (Combined Material Holders and Developing Tanks.)
2543	Cut Film Holders.	266	Filters.
255	Dark Room Lamps.	2661	Orthochromatic Filters.
2555	Safelights.	2662	Graded Filters.
256	Washers for Plates and Films.	2663	Contrast Filters.
257	Print Washers.	2664	Compensating Filters.
258	Negative Drying Apparatus.	2668	Filter Holders.
259	Portable Dark Cabinets.	267	Telemeters and Focusing Scales (For Focusing Finders see 2645.)
		268	Exposure Reckoners and Meters.
		2681	Exposure Tables.

2682	Light Measuring Photo- meters.	2835	Albums.
2683	Actinometers.	284	Mounting Pastes and Tissues.
269	Camera Cases.	285	Mounting Machines.
27	Studio Sundries.	286	Frames.
271	Studio Furniture.	287	Framing Sundries.
272	“ Backgrounds.	288	Transparency Holders.
273	“ Reflectors.	289	Dispatching and Packing Sundries.
274	“ Filing Sundries.	29	Miscellaneous Materials.
275	Retouching Sundries.	291	Sensitometric Apparatus.
28	Mounting Sundries.	2911	Standard Light Sources.
281	Trimming Machines.	2912	Sensitometers.
282	“ Knives and Shapes.	2913	Sensitometric Tablets.
283	Mounts.	2914	Developing Thermostats.
		2915	Photometers.

3 Cinematograph Apparatus

31	Taking Cameras.	33	Perforators.
312	Ordinary Cameras.	34	Cine Printing Apparatus.
313	Hand Cameras.	341	Step Printers.
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K

Color Photography

K is used as a prefix to any of the classes of photography in place of 042 and signifies that the class so designated is considered as applicable to color photography. Thus, we get the following specially applicable numbers:

- | | |
|--|---|
| <p>042 (K) General Color Photography.</p> <p>K01 Theory of Color Photography.</p> <p>K02 Amateur Work in Color Photography.</p> <p>K031 Color Portraiture.</p> <p>K043 Stereoscopic Color Photography.</p> <p>K058 Use of Artificial Light in Color Photography.</p> <p>K06 Color Cinematography.</p> <p>K062 The Design of Stages, etc., for Color Cinematography.</p> <p>K067 Color Cine Projection.</p> <p>K08 Applied Color Photography.</p> <p>K09 Color Applied to Scientific Photography.</p> <p>K094 Color Photomicrographs.</p> <p style="text-align: center;">Processes of Color Photography.</p> <p>K/1 Interference Processes.</p> <p>K/2 Additive Processes.</p> <p style="padding-left: 20px;">K/21 Additive Projection in Triple Lantern.</p> <p style="padding-left: 20px;">K/22 Subjective Additive Processes (Kromskop).</p> <p style="padding-left: 20px;">K/23 Cinema Additive Projection Simultaneously.</p> <p style="padding-left: 20px;">K/24 Cinema Additive Projection by Persistence of Vision.</p> <p>K/3 Screen Unit Processes.</p> <p style="padding-left: 20px;">K/31 Regular Line.</p> <p style="padding-left: 20px;">K/32 Regular Dot or Pattern.</p> <p style="padding-left: 20px;">K/33 Irregular Grain.</p> <p style="padding-left: 20px;">K/34 Cinema Screen Unit Processes.</p> <p style="padding-left: 20px;">K/35 Screen Unit Paper Processes.</p> <p style="padding-left: 20px;">K/37 Methods of Registering Screen Unit Plates.</p> <p>K/4 Subtractive Processes.</p> <p style="padding-left: 20px;">K/41 Superposed Transparencies.</p> <p style="padding-left: 20px;">K/42 Superposed Films on Opaque Support (Paper).</p> <p style="padding-left: 20px;">K/43 Subtractive Cinema Processes.</p> <p style="padding-left: 20px;">K/44 Multiple Color Prints Contained in One Layer (e.g., Imbibition Processes).</p> <p style="padding-left: 20px;">K/45 Subtractive Prints from Screen Plates.</p> <p>K/5</p> <p style="padding-left: 20px;">K/51 Lippmann Process.</p> | <p>K/52 Direct (Seebeck) Process.</p> <p>K/53 Heliochrome Dispersion Process.</p> <p>K/56 Multicolor Methods.</p> <p>K/6 Silver Processes in Color Photography.</p> <p>K/64 Collodion Emulsion Processes of Color Photography.</p> <p>K/7 Iron Processes of Color Photography</p> <p>K/8 Bichromate Processes of Color Photography.</p> <p style="padding-left: 20px;">K/83 Color Carbon Methods.</p> <p style="padding-left: 20px;">K/84 Color Ozobrome Methods.</p> <p style="padding-left: 20px;">K/85 Pinatype Methods.</p> <p>K/9 Other Light Sensitive Materials.</p> <p style="padding-left: 20px;">K/93 Bleach-out Process.</p> <p style="padding-left: 20px;">K/94 Pinachromy.</p> <p style="padding-left: 20px;">K/95 Primuline Methods.</p> <p>K1 Materials for Color Photography.</p> <p style="padding-left: 20px;">K114 Panchromatic Plates.</p> <p style="padding-left: 20px;">K1212 Panchromatic Cine Film.</p> <p style="padding-left: 20px;">K1321 Carbon Tissue for Color Work.</p> <p style="padding-left: 20px;">K1322 Pinatype Plates.</p> <p style="padding-left: 20px;">K138 Bleach Out Paper.</p> <p style="padding-left: 20px;">K158 Dyes for Color Photography.</p> <p style="padding-left: 20px;">K1583 Pinatype Dyes.</p> <p style="padding-left: 20px;">K1673 Ozobrome Bleaching Baths.</p> <p>K2 Apparatus for Color Work.</p> <p style="padding-left: 20px;">K21 Color Cameras.</p> <p style="padding-left: 20px;">K211 Studio Cameras.</p> <p style="padding-left: 20px;">K2114 Sliding Back Cameras.</p> <p style="padding-left: 20px;">K2115 Moving Mirror Cameras.</p> <p style="padding-left: 20px;">K2116 One Exposure Mirror Cameras.</p> <p style="padding-left: 20px;">K2117 Prism Cameras.</p> <p style="padding-left: 20px;">K213 Hand Cameras (Plate) for Color Work.</p> <p style="padding-left: 20px;">K218 Color Stereoscopic Cameras.</p> <p style="padding-left: 20px;">K22 Color Projectors.</p> <p style="padding-left: 20px;">K225 Kromskops.</p> <p style="padding-left: 20px;">K263 Lenses for Color Work.</p> <p style="padding-left: 20px;">K266 Filters for Color Work.</p> <p style="padding-left: 20px;">K2664 Compensating Filters.</p> <p style="padding-left: 20px;">K2665 Color Taking Filters.</p> <p style="padding-left: 20px;">K2666 Color Projection Filters.</p> <p>K3 Apparatus for Color Cinematography</p> <p style="padding-left: 20px;">K31 Cine Color Cameras.</p> <p style="padding-left: 20px;">K32 Cine Color Projectors.</p> <p style="padding-left: 20px;">K363 Cine Lenses for Color Work.</p> |
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X

Radiography

X is used as a prefix to any of the classes of photography in place of 099 to indicate that the class so designated is considered as applied to Radiography. Thus, we get:—

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| 099 (X) Radiographic Photography. | X416 Tubes. |
| XF6 X-Ray Exposing. | X417 Tube Stands. |
| XG X-Ray Developing. | X42 Apparatus for the Use of X-Rays. |
| X01 Theory of Action of X-Rays on Sensitive Materials. | X421 Protective Shields, etc. |
| X043 Stereoscopic Radiography. | X422 X-Ray Couches. |
| X06 X-Ray Cinematography. | X423 Plate and Film Holders. |
| X097 X-Rays in Surgery and Medicine | X424 Intensifying Screens. |
| X0971 Localizing Foreign Bodies. | X425 Fluoroscopes and Fluorescent Screens. |
| X0972 Examination of Fractures. | X43 Apparatus for the Measurement of X-Rays. |
| X0973 General Diagnosis of Pathological Conditions. | X431 Current Measuring Instruments. |
| X0974 X-Ray Treatment. | X432 Potential Measuring Instruments. |
| X116 X-Ray Plates. | X433 Hardness Measuring Instruments. |
| X12 X-Ray Film. | X434 Quantity Measuring Instruments. |
| X13 X-Ray Paper. | X435 X-Ray Spectrometers. |
| X4 X-Ray Apparatus and Sundries. | X44 Sundry Apparatus. |
| X41 Apparatus for the Generation of X-Rays. | X441 X-Ray Negative Illuminators. |
| X411 Transformers. | X442 X-Ray Stereoscopes. |
| X412 Static Machines. | X443 X-Ray Localizing Devices. |
| X413 Induction Coils. | |
| X414 Interrupters. | |
| X415 High Tension Rectifiers. | |



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